

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P253037

Luminaire Tested: **PRS640D010-S6M24-64SWDMB-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS640D010-S6M24-64SWDMB-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE BLACK
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3442.5 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

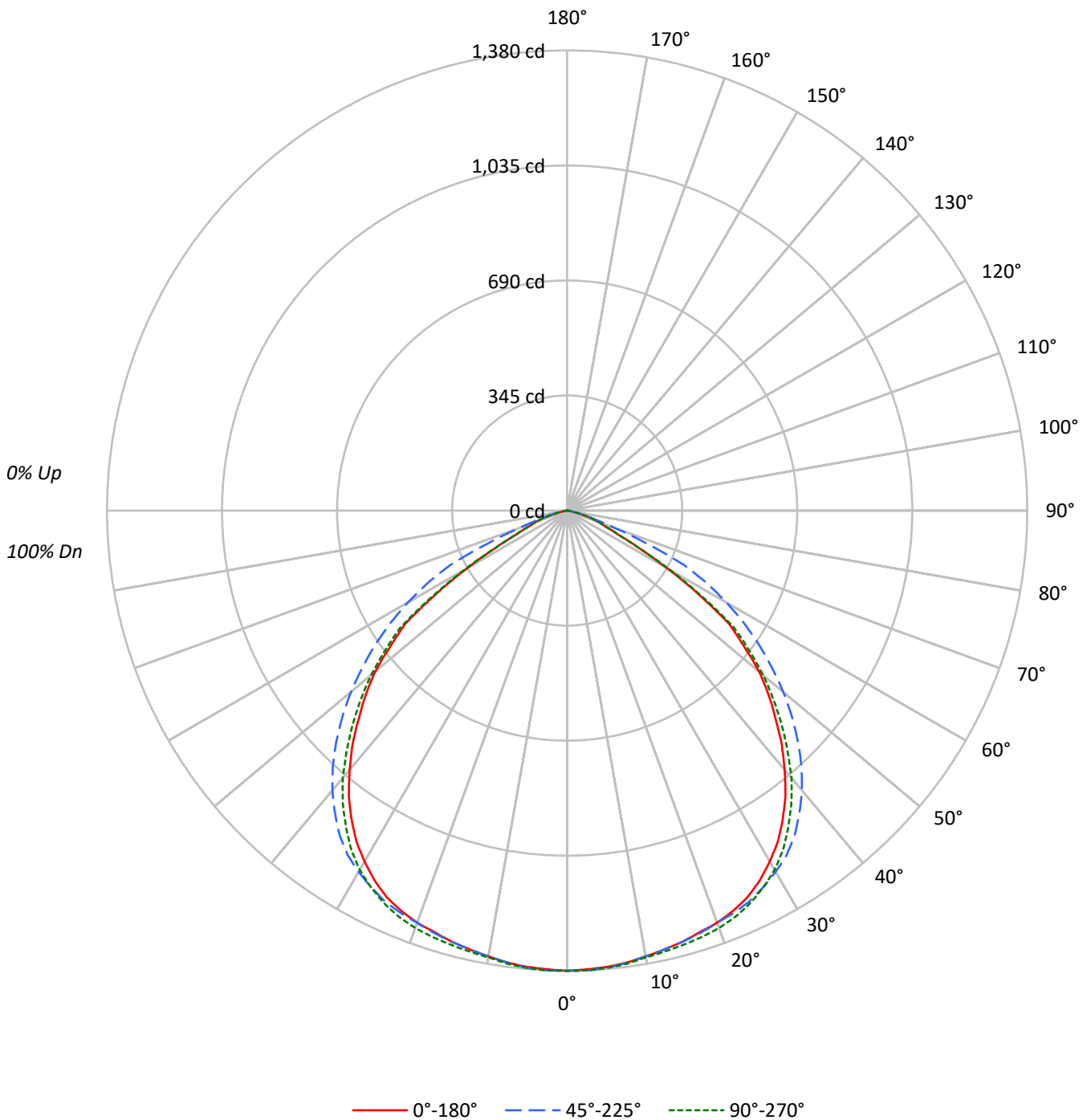
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90					88				
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	84	80	78					76				
3	94	84	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67					65				
4	86	76	68	61	84	74	67	61	72	65	60	70	64	59	67	63	59					57				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46					44				
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	59430	59430	59430
5°	59376	59514	59514
10°	59354	59354	59494
15°	59650	59650	60082
20°	60275	60275	61017
25°	60799	61417	61725
30°	60405	62180	61857
35°	59268	62501	60798
40°	57003	61556	58824
45°	53857	59581	55440
50°	50351	56647	51436
55°	44506	52778	45722
60°	29855	47430	30690
65°	16830	39284	16830
70°	12639	19172	12236
75°	7552	8617	8085
80°	3223	4017	3223
85°	1581	1581	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	3.8
10°-20°	379.3	11.0
20°-30°	594.2	17.3
30°-40°	726.0	21.1
40°-50°	721.8	21.0
50°-60°	569.9	16.6
60°-70°	255.1	7.4
70°-80°	59.4	1.7
80°-90°	6.1	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1104.3	32.1
0°-40°	1830.2	53.2
0°-60°	3121.9	90.7
0°-90°	3442.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1374	1374	1377	1377	1377	131
15°	1338	1335	1338	1341	1348	378
25°	1280	1283	1293	1296	1299	588
35°	1128	1150	1189	1173	1157	703
45°	884	927	978	949	910	683
55°	593	638	703	651	609	507
65°	165	217	386	220	165	185
75°	45	55	52	55	49	51
85°	3	3	3	3	3	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1380.3	1380.3	1380.3	1380.3	1380.3
2.5°	1377.0	1380.3	1380.3	1380.3	1380.3
5°	1373.8	1373.8	1377.0	1377.0	1377.0
7.5°	1367.3	1367.3	1367.3	1370.6	1370.6
10°	1357.6	1357.6	1357.6	1360.8	1360.8
12.5°	1347.9	1347.9	1347.9	1351.1	1354.4
15°	1338.2	1334.9	1338.2	1341.4	1347.9
17.5°	1325.2	1328.4	1328.4	1334.9	1341.4
20°	1315.5	1315.5	1315.5	1325.2	1331.7
22.5°	1299.3	1299.3	1305.8	1312.2	1318.7
25°	1279.8	1283.1	1292.8	1296.0	1299.3
27.5°	1250.7	1260.4	1273.4	1276.6	1273.4
30°	1215.0	1228.0	1250.7	1247.4	1244.2
32.5°	1176.2	1192.4	1224.8	1215.0	1205.3
35°	1127.6	1150.2	1189.1	1172.9	1156.7
37.5°	1075.7	1104.9	1143.8	1127.6	1104.9
40°	1014.2	1049.8	1095.2	1072.5	1046.6
42.5°	952.6	991.5	1040.1	1010.9	978.5
45°	884.5	926.7	978.5	949.4	910.5
47.5°	819.7	861.9	913.7	878.1	839.2
50°	751.7	790.6	845.7	806.8	767.9
52.5°	667.5	719.3	774.4	732.3	686.9
55°	592.9	638.3	703.1	651.3	609.1
57.5°	466.6	557.3	628.6	567.0	479.5
60°	346.7	434.2	550.8	447.1	356.4
62.5°	239.8	320.8	473.1	324.0	243.0
65°	165.2	217.1	385.6	220.3	165.2
67.5°	123.1	145.8	259.2	145.8	123.1
70°	100.4	106.9	152.3	106.9	97.2
72.5°	74.5	84.2	84.2	84.2	77.8
75°	45.4	55.1	51.8	55.1	48.6
77.5°	19.4	25.9	32.4	29.2	19.4
80°	13.0	13.0	16.2	13.0	13.0
82.5°	9.7	9.7	9.7	9.7	9.7
85°	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	3.2	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)